

Remarks

Claims 35, 36, 46, 48, 49, 65, and 66 were rejected as being anticipated by U.S. Patent Nos. 6,310,850 (Sochava et al.) "Sochava". Applicants respectfully bring to the Examiner's attention that Sochava at column 10, lines 25-29, and especially at lines 89-29, states that "the format hologram does not itself represent recorded data". Thus, the fixing of that format hologram relied upon by the Examiner at column 5, lines 38-58, and column 10, lines 6-8, cannot be the fixing of any hologram representing recorded data. Claim 35, as amended, is clarified to describe that the exposing means is operative by directing optical energy for recording to at least one of one or more locations of recorded holograms representing data. As Sochava clearly does not describe an apparatus for fixing any hologram representing data, Claim 35 cannot be anticipated by Sochava. Furthermore, Claim 65 as amended cannot be anticipated by Sochava since Sochava does not describe any optics for fixing the media from further recording where one or more holograms were recorded. For similar reasons, Claims 46 and 48 cannot be anticipated by Sochava since Claim 46 describes the steps of *recording one or more holograms representing data* at one or more locations on the media, and after such recording exposing the media with sufficient energy to fix the media against further recording in such locations, and Claim 48 describe means for *recording one or more holograms representing data* at one or more locations on the media, and means operative after such recording for exposing the media with sufficient energy to fix the media against further recording in such one or more locations (italics added). Clearly, the format hologram fixed by Sochava at column 5, lines 51-54, and column 10, lines 6-8, fails to represent recorded data as explained at column 10, lines 28-29. This make sense as Sochava states at column 10, lines 35-37 that "holography is used to format the bulk recording material only, and writing data to the bulk recording medium is performed using essentially non-holographic techniques." Thus, Claims 46 and 48 cannot be anticipated by Sochava. For the above reasons, withdrawal of the rejection of Claims 35, 46, 48, and 65 along with their respective dependent Claims 36, 49, and 66 is requested.

Claims 70, 72 and 75 are rejected as being anticipated by U.S. Patent No. 6,023,352 (Haskal). Claim 70, as amended, describes at least one beam of optical energy directing to a first location along the first side of the media in which a portion of the

optical energy exits from a second location of the media along the second side of the media, and optics having at least a reflective surface which directs the portion of the optical energy exiting from the second location to at least one third location along the second side of the media different from the second location. As shown in FIG. 1 of Haskal, its optic (22) does not direct light (noted as light rays 26) to any location different from the location from which the beam passes out of element (12). Accordingly, Claim 70 cannot be anticipated by Haskal.

Claim 75, as amended, describes optics for redirecting the beam that passes through the media to one or more locations in the media where one or more holograms have been previously recorded, in which these one or more locations in the media are different from the location of the media from which the beam passes out of the media to such optics. As evident from FIG. 1 of Haskal, Haskal does not redirect light (26) to any location different from the location from which the beam passes out of element (12). Accordingly, Claim 75 cannot be anticipated by Haskal.

For the above reasons, withdrawal of the rejection of Claims 70 and 75, along with Claim 72 dependent on Claim 70, is requested.

Claims 75 and 76 were rejected as being anticipated by U.S. Patent Publication No. 2002/0015376 (Liu et al.) "Liu". As shown in FIG. 2 and stated in paragraph 0191 of Liu, the "reflected beam 112' is then focused by the lens(es) 118 to the same spot within the holographic-grating element 102 at which the transmitted beam 118 is focused". Claim 75, as amended, describes optics for redirecting the beam that passes through the media to one or more locations in the media where one or more holograms have been previously recorded, wherein such one or more locations in the media are different from the location of the media from which the beam passes out of the media to such optics. Liu clearly does not redirect its light (112') to any location different from the location of the media from which the beam passes out of the media. It is not designed to do so. Accordingly, Claim 75 cannot be anticipated by Liu. Withdrawal of the rejection of Claim 75 and its dependent Claim 76 is requested.

The allowance of Claims 1, 2, 4, 5, 8-10, 12-14, 17-19, 21, 22, 25-27, 29-31, 34, 50-56 and 58-64 is gratefully acknowledged.

Claims 44, 67, 68, and 71 were objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all the limitations of the base claims and any intervening claims. Claim 71 has been rewritten with all the limitation of its base Claim, and thus is now allowable. Claims 44, 47 and 48 are believed allowable along with their respective base claims.

New dependent Claim 78 is added.

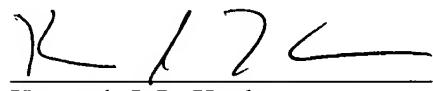
Claim 74 is cancelled without prejudice to inclusion in a possible divisional application.

As withdrawn Claims 3, 11, 15, 16, 20, 28, 32, 33, and 57 depend on at least an allowable base Claim, rejoinder of these claims with the other pending claims is requested. Rejoinder of withdrawn Claims 47, 69, 73, and 77 is also requested upon allowance of their respective base Claims 46, 65, 70, and 75.

A petition for a three-month extension of time is enclosed along with a check for \$1,110.00 for the required petition fee.

Respectfully submitted,

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Enclosure: Petition for Extension of Time with a Check for \$1,110.00